

BenQ E146X Series
Digital Camera
User Manual

Welcome

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BenQ ecoFACTS

BenQ has been dedicated to the design and development of greener product as part of its aspiration to realize the ideal of the "Bringing Enjoyment 'N Quality to Life" corporate vision with the ultimate goal to achieve a low-carbon society. Besides meeting international regulatory requirement and standards pertaining to environmental management, BenQ has spared no efforts in pushing our initiatives further to incorporate life cycle design in the aspects of material selection, manufacturing, packaging, transportation, using and disposal of the products. BenQ ecoFACTS label lists key eco-friendly design highlights of each product, hoping to ensure that consumers make informed green choices at purchase. Check out BenQ's CSR Website at <http://csr.BenQ.com/> for more details on BenQ's environmental commitments and achievements.



WEEE directive



WEEE



Battery

Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union.

This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment and/or battery by handing it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

Recycling information: See <http://www.benq.com/support/recycle> for details.

CE Regulatory Notice

This device is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the Laws of the Member States relating Electromagnetic Compatibility (2004/108/EC); the Low Voltage Directive (2006/95/EC); the Restriction of The Use of Certain Hazardous Substances in Electrical And Electronic Equipment Directive (2002/95/EC), Turkish EEE Directive; the Commission Regulation (EC) No 1275/2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to eco-design requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment, and the Directive 2009/125/EC of the European parliament and of the council establishing a framework for the setting of eco-design requirements for energy-related products.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Safety warning and notice

Before operating the camera, please make sure that you read and fully understand the content in this section. If you ignore and violate all safety warning notices indicated in this section, the camera warranty may be void. Meanwhile, not only the camera but also you and all other people and things around you may be severely damaged, injured, or even placed in danger of death.

For your safety

- Keep the camera and its accessories out of the reach of babies, toddlers, and children. In particular, small parts such as memory cards and batteries could be easily dismantled and swallowed by them.
- Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.
- Do not dismantle the camera under any circumstances.
- When using the flash, do not go too close to human eyes (particularly for babies, toddlers, and children) or animal eyes. Otherwise, when the flash fires, the light may cause damage to human eyes or irritate animals.
- Batteries could explode, for instance. All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touch exposed terminals. The material may complete an electrical circuit and become quite hot. Exercise care in handling any batteries, particularly when placing it inside your pocket, purse, or other container with metal objects. Do not dispose of batteries in fire as they may explode.
- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.
- Some camera models accept non-rechargeable batteries. When using these batteries, do not charge them. Otherwise, dangers such as explosion and fire may occur.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Warranty

- Warranty is void if damage or system failure occurred due to outside factors such as collision, fire, flood, dirt, sewage, earthquake, and other force majeure events as well as incorrect usage of electricity or use of non-original accessories.
- It is the sole responsibility of the user if problems (such as data loss and system failure) occurred due to non-factory installed software, parts, and/or non-original accessories.
- Do not change the camera. Any changes to the camera invalidate the warranty.

Taking care of your camera

- Always keep the camera in the accompanying leather case or pouch for better protection against splashes, dust, and collision.
- The only way of replacing the battery and the memory card is to open the battery/card cover.
- Dispose of unwanted batteries and cameras as permitted by the laws in your countries.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- If your camera becomes wet, wipe it with a dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.
- Do not drop, knock, or shake the camera. A rude behavior of using the camera may damage the internal electronic circuit board, deform the lens shape, or make the lens un retractable.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the camera.
- Finger grease may be left on the camera lens and will result in unclear images or videos. To avoid this problem, be sure to clean the camera lens before taking pictures or recording videos. You should also clean the camera lens on a regular basis.
- If the lens is dirty, use a lens brush or soft cloth to clean the lens.
- Do not touch the lens with your fingers.

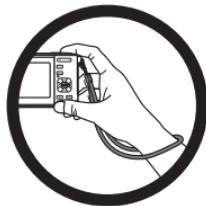
- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the batteries. Next, remove the foreign substance or water and send it to the maintenance center.
- Whenever there is data in the internal memory or the external memory card, you should make a backup copy to a computer or disc. So, you can have a backup solution if data loss occurs.
- If the lens cannot retract into the camera, please replace the batteries first (usually this is because of drained batteries). Then the lens should retract automatically. If the lens still cannot retract, please contact your dealer.
- Under no circumstances should you push the lens back manually as this may damage the camera.
- All original accessories are designed only for use with this camera model you purchased. Do not use these accessories with other camera models or cameras of other brands to avoid unpredictable danger or damage.
- Before initial use of a memory card, always use the camera to format the card first.
- Remember to slide the write-protect tab (if available) to the unlock position. Otherwise, all data (if any) on the memory card is protected and the card cannot be edited or formatted.

Operating environment

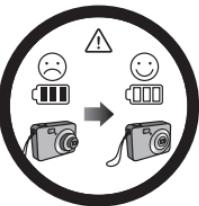
- Do not use or store your camera in the environments listed below:
 - Direct sunlight
 - Dusty places
 - Next to an air conditioner, electric heater or other heat sources
 - In a closed car that is in direct sunlight
 - Unstable locations
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.
- The camera operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.
- The capacity of your camera batteries will reduce each time it is charged/emptied.
- Storage at too high or low temperatures will also result in a gradual capacity loss. As a result, the operating time of your camera may be considerably reduced.
- It is normal for the camera to become warm during operation, because the camera casing might conduct heat.



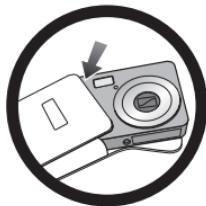
Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.



To avoid accidental falling, please attach the hand strap to the camera and always hold the camera by keeping the hand strap around your wrist.



If the battery suddenly depleted and caused the lens fail to retract, please carefully protect the lens to avoid collision and insert a battery with full power ASAP.



When the camera is not in use, always turn the power off and make sure the lens has retracted successfully before storing the camera in its case. If you do not intend to use the camera for a long time, please remove the battery from the camera and store the battery carefully.



Keep your camera away from sharp objects and avoid collision.



When the camera is not in use, please place it in a steady place. Plus, always keep your camera away from pressure or any other similar environment (for example, in a pant pocket) to avoid possible damage.

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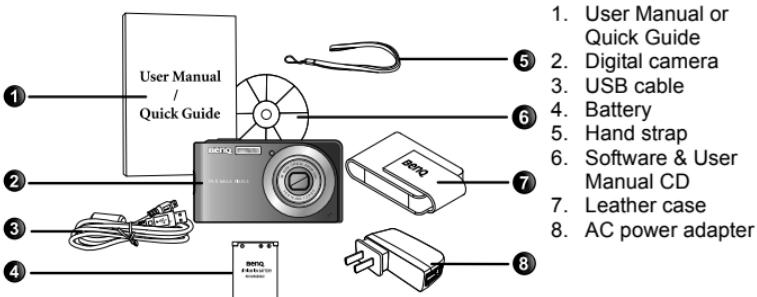
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Touring the camera

Checking the package contents

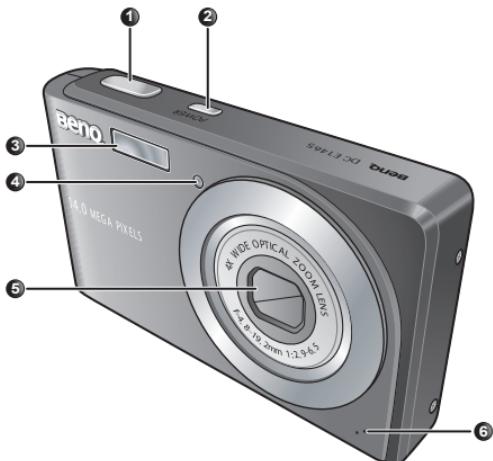
Carefully unpack your kit box and ensure that you have the following items.



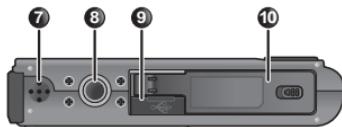
- All pictures, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- Save the packaging for future shipment or storage.

Camera

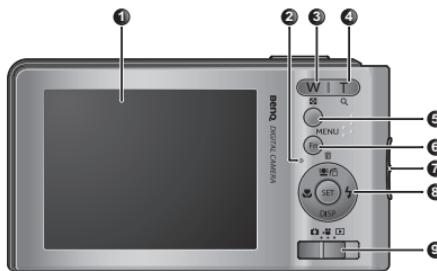
Front view and bottom view



1. Shutter button
2. Power button
3. Flash
4. AF Assist Lamp / Self-timer LED indicator
5. Lens
6. Microphone
7. Speaker
8. Tripod mount
9. USB / AV port
10. Battery/card cover



Rear view



1. LCD display
2. Status LED
3. **W** (Wide) - Zoom-out, turn off the Shooting mode description, or enter the thumbnail view (Playback mode)
4. **T** (Tele) - Zoom-in or turn on the Shooting mode description
5. MENU button **MENU** or return to the previous menu
6. Function / Delete button **Fn** - Activate the function menu (Capture mode) or delete photos (Playback mode)
7. Strap eyelet
8. Multifunctional buttons (including a 4-way control and a **SET** button)
9. Mode switch - Toggle among Capture (photo), Capture (movie), and Playback modes

Indicator	State	Description
Status LED	No light	The digital camera is off.
	Solid green	<ul style="list-style-type: none"> The digital camera is ready to capture images. The digital camera is powering on, or is in the power-saving mode.
	Blinking green	<ul style="list-style-type: none"> The digital camera cannot focus. The digital camera is capturing a video clip. The flash is charging, or the USB communication/transfer is in progress.
Self-timer LED	Blinking red	The self-timer function is activated.

☞ • It is normal for the camera to become warm during operation, because the camera casing might conduct heat.

- The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.
- The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the shutter button, always hold the camera steady. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.

Preparing the camera for use

Use only the specified battery for the camera, and always turn off the camera before removing the battery.

A



To install the battery:

- Release and open the battery/card cover (A).
- Insert the battery in the correct direction by matching the + - label on the battery slot (B).
- Push the battery all the way down.
- Close and lock the battery/card cover (D).

B





To remove the battery:

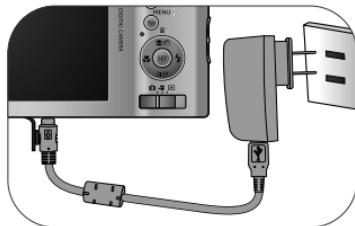
1. Release and open the battery/card cover.
2. Pull the battery out (C).
3. Close and lock the battery/card cover (D).

Charging the battery

The battery charge status affects the camera performance. To maximize the performance and the battery life, fully charge the battery via a wall outlet (or a computer), and then fully discharge it through normal use at least once.

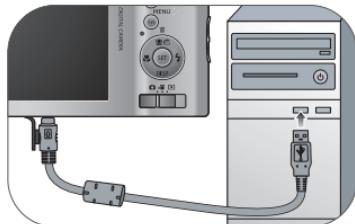
To charge the battery via a wall outlet:

1. Turn off the camera.
2. Insert the battery into the camera.
3. Connect one end of the USB cable to the camera.
4. Connect the other end of the USB cable to the power adapter.
5. Plug in the power adapter to a wall outlet. The battery will start charging immediately.



To charge the battery via a computer:

1. Turn on the computer.
2. Turn off the camera.
3. Insert the battery into the camera.
4. Connect one end of the USB cable to the camera.
5. Connect the other end of the USB cable to your computer. The battery will start charging immediately.



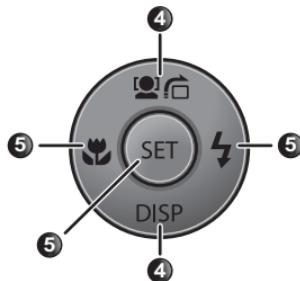
 You need to follow the instructions above to ensure successful charging.

-  • Turn off the camera before removing the battery.
- Please fully charge the Li-ion battery before using it for the first time.
- When the battery is being charged, the status LED indicator flashes in green. When the battery is fully charged, the status LED indicator is off.
- Use only the specified battery type. Using other types of battery may damage the camera and invalidate the warranty.
- Ensure that the Li-ion battery is inserted into the product with correct polarity. Incorrect polarity may damage the camera or cause fire.
- Download all pictures and remove the battery from the camera if you are going to store the camera for a long time.
- Damage caused by the use of an incorrect power adapter is not covered under the warranty.
- The battery may be warm after being charged or used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its battery warm by holding it inside your jacket or another warm protective environment.

Using multifunctional buttons

You can choose camera settings by pressing the 4-way control or the **SET** button.

1. **Left/Focus:**
 - Scrolls left in menus.
 - Toggles between different focus modes.
2. **Up:**
 - Scrolls up in menus.
 - Turns on/off Face Tracking. See "Face Tracking" on page 11 for details.
 - Rotates an image. See "Rotating an image" on page 34 for details.
3. **Right/Flash:**
 - Scrolls right in menus.
 - Selects a flash mode.
4. **Down:**
 - Scrolls down in menus.
5. **SET:** Confirms a chosen setting.



Using an SD card

The camera comes with internal memory for storing captured images, video clips, or audio files. You can also add an SD card to store more files.



To install an SD card:

1. Make sure the camera is turned off.
2. Release and open the battery/card cover.
3. Insert an SD card in the correct direction.
4. Close and lock the battery/card cover.

To remove an SD card:

1. Make sure the camera is turned off.
2. Release and open the battery/card cover.
3. Lightly press the edge of the memory card to eject.
4. Close and lock the battery/card cover.

Before initial use of an SD card, please format the card first by pressing **MENU** > > **Manage Memory** > **SET** / > **Format** > **SET** > **Yes**.

Initial setting

You will be prompted to set up the language and the date and time when the camera is turned on for the first time.

Setting language

Selects the language version shown on the screen.

To select a language:

1. Press **MENU** > . (Step 1 is needed only after the initial setting is done.)
2. Press  or **DISP** to locate **Language / 語言 / 语言**, and then press **SET** or .
3. Press , , , or **DISP** to locate the language you want.
4. Press **SET** to set the language.



Setting date and time

When using the camera for the first time or when the battery has been removed from the camera for a long time, you need to set the date and time. The date and time is recorded when a video or image is captured.

To set date and time:

1. Press **MENU** > . (Step 1 is needed only after the initial setting is done.)
2. Press  or **DISP** to locate **Date/Time**, and then press **SET** or .
3. Press  or **DISP** to select date and time and date format. Press  or  to move to another column as needed.
4. Press **SET** to set the date and time.



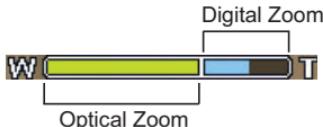
Operating the camera

The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

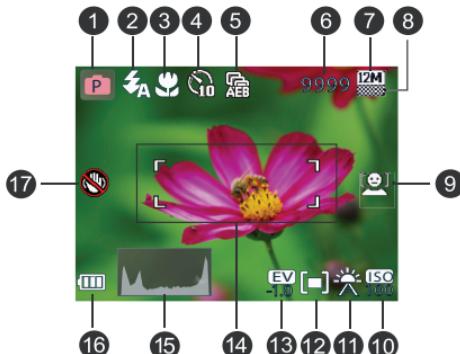
1. Press the Power button to turn the power on.
2. Slide the mode switch to and press MENU > **DISP**, , or to locate desired options (under two different tabs: and), and then press SET or to make selections.
- Remember to follow the on-screen display or slide to for instructions (wherever available). Next, press corresponding buttons to access and set more options. At any time, you can cancel the current operation by pressing MENU to return to your previous step.
3. Slide to to zoom-in or to zoom-out.
4. Press the shutter halfway to set automatic focus. Once the focus is set, the focus frame color will turn from white (unfocused) to green (focused). If the focus frame color is red and you press the shutter down, it might result in a blurred photo.
5. Press the shutter down fully to capture.
6. Release the shutter.
7. Slide the mode switch to and enter the **Movie Record** mode. Next, adjust the optical zoom as needed and press the shutter down to start video recording (press the shutter again to stop video recording).
8. Slide the mode switch to and view captured images or recorded videos. You can press , or to move to different images/videos, slide to press or to zoom-in/out a captured image, or slide to to view 9 images on the screen.



- During zoom-in/out, there is a separator in the zoom bar between and . For best image quality, it is recommended to use optical zoom only by keeping the magnification within and the separator.
- Flash is automatically turned off in the Movie Record mode.
- The Movie Record mode records both sound and video. The recording time is continuous, but recording will stop once the memory card space is full.
- In the Movie Record mode, sound is temporarily muted during zoom-in/out.
- At any time, you can press the Power button to turn off the camera.
- In Capture or Playback mode, press **DISP** to decide what information to show on the screen.



Capture mode

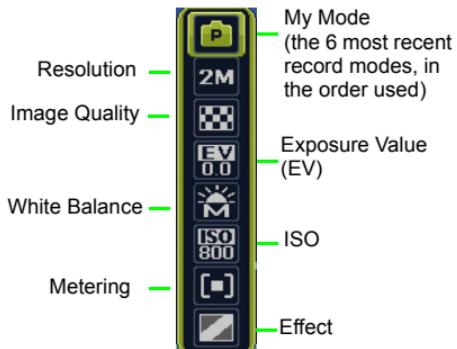


Item	Description	Page reference
1	Shooting mode	16
2	Flash mode	11
3	Focus mode	12
4	Drive mode	22
5	AEB	22
6	Number of shots available	--
7	Image size	12
8	Image quality	12
9	Face Tracking	11
10	ISO	14
11	White Balance	13
12	AE metering	14
13	Exposure value (EV)	13
14	AF area	23
15	Histogram	--
16	Battery status	30
17	Camera shake warning	--

- In the Capture mode, press **DISP** to toggle among 5 display modes (standard, complete, none, rule of thirds, and Help Screen).
- Use the rule of thirds display mode to improve your composition by placing subjects on at least one of the intersections of these 4 imaginary lines.
- Help Screen diagram provides a quick overview to the major functions of the camera buttons.
- While the shutter is pressed halfway, the shutter speed and the aperture are also shown on the screen (not available in the Movie Record mode).
- While the shutter is pressed down halfway, the AF area color changes to yellow-green, camera shake warning (appears only if the camera itself detects possible shaking), aperture, shutter speed and ISO setting are also shown on the screen.

More capture options in the Function menu

Press the Function button **Fn** to access more capture options. Depending on your settings, the displayed option icons in the Function menu may vary.



To use the Function menu:

- Press **Fn** to enter the Function menu, the currently selected settings are shown.
- Press **[OK]**, **DISP** to go to another option, or press **◀** or **▶** to select a setting.
- Press **SET** to confirm the setting.

Flash mode

The flash offers additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
	Auto Flash	The flash fires automatically based on the photographic conditions.
	Auto Anti Red-eye	Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
	Force On	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.
	Slow Sync	Fires the flash immediately at the beginning of exposure with a longer shutter speed, so balanced ambient lighting of the foreground subject and background scene can be reached in a low-light environment.
	Force Off	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

To select a flash mode:

1. Go to the Capture mode.
2. Keep pressing  to toggle among different flash modes and select a desired option.

Face Tracking

Focuses on the position of faces (max. 10 faces) simultaneously. While using the Face Tracking function, point the camera to where the people (your subjects) are located. Focus frames of Face Tracking will automatically detect faces (maximum 10) and show on the LCD screen.

-  • Due to environmental factors such as lighting, the number of detected faces might be different from that of the actual faces.
- To achieve the best result, ask your subjects not to turn their faces partially away from the lens.

Focus mode

Icon	Mode	Description
	Auto focus	Adjusts focus automatically.
	Super Macro	Used when capturing images at a close distance.
	Pan Focus	Used when you want to capture the subjects in a certain focus range.
	Infinity	Used when capturing images at long distance.

To select the focus mode:

1. Go to the Capture mode.
2. Keep pressing to toggle between Auto focus and focus modes.

Image size

Icon	Description	Icon	Description
	14 megapixels (4320 x 3240)		3 megapixels (2048 x 1536)
	3:2 (14 megapixels; 4320 x 2880)		HD 16:9 (1920 x 1080 in full HD format)
	8 megapixels (3264 x 2448)		VGA (640 x 480)
	5 megapixels (2592 x 1944)	--	--

To select an image size:

1. Press **Fn** + > Resolution.
2. Press or to select a setting.
3. Press **SET** to confirm setting.

Image quality

Icon	Mode	Description
	Super Fine	Best image quality with the lowest compression rate. File size is the largest.
	Fine	Better image quality with medium compression rate. File size is medium.
	Normal	Good image quality with the highest compression rate. File size is the smallest.

To select an image quality level:

1. Press **Fn** +  > **Image Quality**.
2. Press  or  to select a setting.
3. Press **SET** to confirm setting.

Setting EV

EV (Exposure Value) lightens or darkens the entire image. Adjust EV when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.

To select an EV:

1. Press **Fn** +  > **EV**.
2. Press  or  to select an EV from the EV bar.
3. Press **SET** to confirm setting.



White Balance

Compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.

Icon	Mode	Description
	Auto	Adjusts white balance automatically.
	Daylight	Used in bright daylight conditions.
	Cloudy	Used in twilight or shady conditions.
	Tungsten	Used when subjects lit by tungsten (incandescent) lighting.
 	Fluorescent H	Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash.
	Fluorescent L	
	Manual	Used when you want to manually adjust white balance in a particular lighting condition.

To select White Balance:

1. Press **Fn** +  > **White Balance**.

- Press or to select a white balance option. The preview result based on the currently selected white balance is shown in the middle thumbnail. (When selecting the manual mode, you must first point the adjustment frame shown on the screen at a blank sheet of white paper or something similar, and press the Shutter for the camera to detect proper colors.)
- Press **SET** to confirm setting.

ISO

ISO configures the camera's sensitivity to light. The higher the ISO value, the brighter picture you can take in a low-light environment. Yet, you may see more noise in the picture as you increase the ISO value.

Icon	Description
	Automatically sets the ISO value.
	Equivalent to color ISO 100/200 film. Used for outdoor photography in bright sunlight.
	Equivalent to color ISO 400/800/1600/3200/6400 film. Used it in a low-light environment or where the flash light is not allowed. <ul style="list-style-type: none"> ISO 3200 for resolution of 3M or under only ISO 6400 for resolution of 3M or under only

To select an ISO value:

- Press **Fn** + > ISO.
- Press or to select an ISO Value.
- Press **SET** to confirm setting.

AE metering

Icon	Mode	Description
	Matrix	Detects the exposure based on multiple points in the subject area.
	Cen. Weight (Center Weight)	Detects the exposure of the entire shooting screen, but gives more importance to the values near the center.
	Spot	Detects the exposure based on the center spot in the subject area.

To select an AE metering option:

- Press **Fn** + > Metering.
- Press or to select an AE metering option.
- Press **SET** to confirm setting.

Effect

Adds color filter effects to the image or video you want to capture.

Icon	Mode	Description
	Normal	No effects are added.
	LOMO	(For Movie Record only) Creates a lomo-like effect by adding over saturated colors, dark corners, and so on.
	Vivid	Adds an effect with very clear and bright color tones.
	Sepia	Adds an effect with dark reddish brown color tones, so the image or video looks as if it is old.
	Color Accent (Red)	Highlights the subjects by keeping the red color domain of an image only while making other regions black and white.
	Color Accent (Green)	Highlights the subjects by keeping the green color domain of an image only while making other regions black and white.
	Color Accent (Blue)	Highlights the subjects by keeping the blue color domain of an image only while making other regions black and white.
	B/W (Black and White)	Adds an effect with monochromatic color tones.
	Vivid Red	The image becomes reddish.
	Vivid Green	The image becomes greenish.
	Vivid Blue	The image becomes bluish.



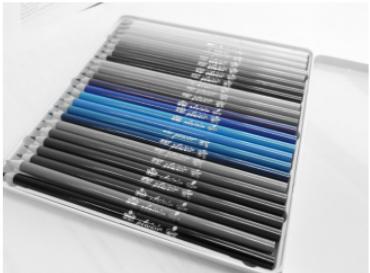
Before



After - when Color Accent (Red) is applied



After - when Color Accent (Green) is applied



After - when Color Accent (Blue) is applied

To select an effect:

1. Press **Fn**- > Effect.
2. Press or to select an Effect option. The preview result based on the currently selected effect is shown in the middle thumbnail.
3. Press **SET** to confirm setting.

Shooting mode

Select one of the following shooting modes to fit your shooting condition.

Icon	Mode	Description
	Auto Mode	The camera automatically decide most settings, so you can capture images with ease.
	Smart Scene	Automatically selects a shooting mode based on the current shooting environment.
	Program	You can set the shooting parameters manually.
	Aperture Priority	You can choose an aperture value, while the shutter speed is automatically determined by the lighting condition of the subject.

	Shutter Priority	You can choose a shutter speed, while the aperture value is automatically determined by the lighting condition of the subject.
	Manual	Lets you set both aperture and shutter speed manually.
	Smile Catch	Automatically takes a shot when a smile is detected.
	Blink Detector	Warns of eye blinks if detected & lets you decide whether to save the image file.
	Portrait	Makes the subject (usually a person) stand out with smooth and natural-looking skin tones.
	Landscape	Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can also be achieved.
	Sports	Uses a high shutter speed to capture objects in motion.
	Backlight	Increases exposure (by turning on the flash) when light illuminates the subject from behind.

	Night Scene	Captures photos in a low-light environment, such as in the evening or at night.
	Night Portrait	Shoots night scenes and portraits clearly. Please keep the camera steady or use a tripod while using this mode.
	Self Portrait	Takes a self portrait with at least one face in a confined area.
	Love Portrait	Takes a self portrait with at least two faces in a confined area.
	Pre-composition	Captures the background first, so the helper can use it to take the final shot.
	HDR	Increases the dynamic range and enhances the details of dark areas.
	LOMO	Creates a lomo-like effect by adding over saturated colors, dark corners, and so on.
	Fisheye	Simulates a fisheye lens effect and creates a distorted hemisphere-like image.

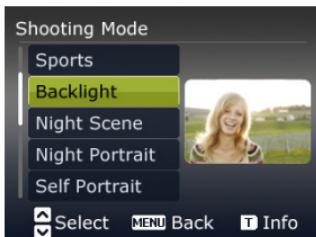
	Snow	Used under a very bright light environment such as snow scenes.
	Fireworks	Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode.
	Building	Enhances lines & contracts to highlight the sense of the three dimensions (3D) for a building.
	Soft Flowing Water	Uses a low shutter speed for motion blur. Please keep the camera steady or use a tripod while using this mode.
	Web Auction	Reduces the file size for faster internet upload.
	Beauty Enhancer	Enhances the tone of skin so that the facial skin appears smooth.
	Food	Captures food by enhancing color brightness and giving more vivid colors.
	Candle Light	Makes a picture look warm, and thus captures the mood under candle light source. Flash is always off.

20 Capture mode

	Party	Captures the party atmosphere usually under indoor light source.
	Text	Improves clarity & contrast when taking a close-up picture of documents.
	Child	Increases sensitivity and emphasizes children's skin tones.
	Foliage	Takes a clear and vivid picture of flowers or plant leaves by emphasizing their saturation and sharpness.
	Sunset	Captures the warmth and atmosphere (represented by hue) of sunrise or sunset.
	Panorama	Creates a panoramic photo from multiple shots.
	Voice Rec. (Voice Record)	Captures background sound only (no images or videos). When listening to the captured audio file later, you can see a unique icon that appears on the screen and indicates that this is an audio file.

 ISO, Metering, and White Balance are not available in some shooting modes like Auto Mode. You must select another mode like Manual to enable these options.

To select a shooting mode:



1. Press **MENU** > > **Shooting Mode** > .
2. The currently selected shooting mode shows. Press or **DISP** to locate another desired option.
 When you are selecting from different shooting modes, slide to for detailed explanation of each shooting mode. Slide to to close the shooting mode description when you are done.
3. Press **SET** to confirm setting.

Aperture Priority

Aperture priority is often used when shooting static subjects or emphasizing the depth of field. In general, use a smaller aperture if a greater depth of field is needed.

To adjust aperture value:

1. Go to the Capture mode with Aperture Priority mode selected.
2. Press **SET**.
3. Press / **DISP** to adjust the aperture value.
4. Press **SET** to confirm setting.

Shutter Priority

Shutter priority is often used when shooting moving subjects. In general, use a shorter shutter speed to catch a fast-moving object.

To adjust shutter speed in Shutter Priority:

1. Go to the Capture mode with Shutter Priority mode selected.
2. Press **SET**.
3. Press / to adjust the shutter speed.
4. Press **SET** to confirm setting.

Manual mode

You can choose the aperture value and shutter speed in Manual mode.

To adjust values in Manual mode:

1. Go to the Capture mode with Manual mode selected.
2. Press **SET**.

3. Press / / DISP to adjust the aperture value, or / to adjust the shutter speed.
4. Press SET to confirm setting.

When toggling between Av/Tv, press the shutter halfway for exposure metering.

Drive mode

Icon	Mode	Description
	Off (Single)	Takes one picture at a time.
	Self-timer	Automatically takes a picture after 2 or 10-second delay. This mode is useful when you want to be part of the picture.
	Double	Performs delay and capture twice: 1. Performs a 10-second delay, then captures the image. 2. Performs another 2-second delay then captures the image again.
	Burst	Continuously takes pictures as long as you keep pressing the Shutter. The flash is always off in this mode.
	Speedy Burst	Press and release the shutter. When the photo size you select is VGA, Speedy Burst will shoot continuously at the speed of 30 shots per second. This will stop after 1 second or when the memory card is full.

To select a drive mode:

1. Go to the Capture mode.
2. Press MENU > > Drive Mode.
3. Press SET or , and then select a desired option.
4. Press SET > MENU.

Auto Exposure Bracketing (AEB)

The AEB function automatically takes 3 pictures with slightly different settings in the shutter speed or the aperture value.

To turn on/off AEB:

1. Go to the Capture mode.
2. Press MENU > > AEB.
3. Press SET or , and then select or .
4. Press SET > MENU.

AF area

Icon	Mode	Description
	Wide	Focuses on a wide range of multiple objects.
	Center	Focuses on the center area of the objects.

To select an automatic focus area:

1. Press **MENU** > > **AF Area**.
2. Press **SET** or , and then select a focusing area.
3. Press **SET** > **MENU**.

AF Assist Lamp

This function emits red light allowing the camera to focus easily when the Shutter button is half pressed.

To turn on/off AF Assist Lamp:

1. Go to the Capture mode.
2. Press **MENU** > > **AF Assist Lamp**.
3. Press **SET** or , and then select **ON** or **OFF**.
4. Press **SET** > **MENU**.

Setting sharpness, saturation and contrast

Adjusts how colors appear in the pictures by setting sharpness, saturation, and contrast.

To set sharpness, saturation, or contrast:

1. Press **MENU** > , and then select **Sharpness**, **Saturation** or **Contrast**.
2. Press **SET** or , and then select **High**, **Normal**, or **Low**.
3. Press **SET** > **MENU**.

Digital Zoom

The digital zoom enlarges or shrinks the image using a software process.

Icon	Mode	Description
	Wise Zoom	Reduces the image size, and thus increases the effective zoom length without sacrificing image quality.
	Digital Zoom	Turns on the digital zoom feature.
	OFF	Turns off the digital zoom feature.

To select a digital zoom:

1. Press **MENU** > > **Digital Zoom**.
2. Press **SET** or , and then select a digital zoom type or **OFF**.
3. Press **SET** > **MENU**.

Date Stamp

Imprints the date when a picture was taken on the picture itself.

To set the date stamp:

1. Press **MENU** > > **Date Stamp**.
2. Press **SET** or , and then select **Date**, **Date & Time**, or **OFF**.
3. Press **SET** > **MENU**.

Instant Review

This feature displays the still image that just recorded for 1 second.

To set the Instant Review:

1. Press **MENU** > > **Instant Review**.
2. Press **SET** or , and then select **ON** or **OFF**.
3. Press **SET** > **MENU**.

During instant review, half press the shutter to return to the capture mode.

S.S.F. (Super Shake-Free)

Reduces blur caused by camera vibration, and thus improves image quality and clearness.

To set S.S.F.:

1. Press **MENU** > > **S.S.F.**.
2. Press **SET** or , and then select **ON** or **OFF**.
3. Press **SET** > **MENU**.

When the battery power is low, S.S.F. will be turned off automatically.

Smart Scene

Automatically selects the best shooting mode from Portrait **AUTO**, Landscape **AUTO**, Sunset **AUTO**, Backlight **AUTO**, Backlight Portrait **AUTO**, Night Portrait **AUTO**, Night Scene **AUTO**, Snow **AUTO**, Text **AUTO**, Foliage **AUTO**, and Super Macro **AUTO**.

1. Press **MENU** > > **Shooting Mode** and select **Smart Scene**.
2. Press the shutter halfway to set automatic focus. The selected shooting mode is displayed in the top left corner of the screen.
3. Press the shutter to capture an image.

Smile Catch

Captures an image when the subject smiles.

1. Press **MENU** >  > **Shooting Mode** and select **Smile Catch**.
2. The camera is tracking the face of your subject (a white frame shows).
3. Once a smile is detected, the camera instantly takes a picture.
4. The camera continues to detect smiles and takes more pictures (Step 3 is repeated).

 Face tracking (one face only) is always on in the Smile Catch mode.

Blink Detector

Automatically detects blinking when you capture an image.

1. Press **MENU** >  > **Shooting Mode** and select **Blink Detector**.
2. Press the shutter to capture an image. If blinking is detected, a warning message appears on the screen.
3. Press  / **DISP** to save or discard the image, and then press **SET** to confirm.

Love Portrait

Takes a self portrait of at least two faces.

1. Press **MENU** >  > **Shooting Mode** and select **Love Portrait**.
2. Once faces are detected, the camera will automatically take a picture after a two-second countdown.

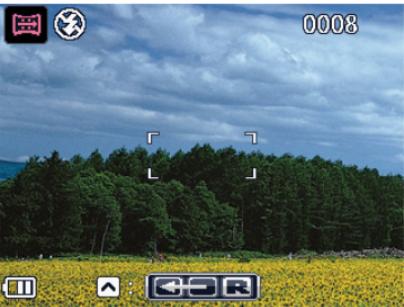
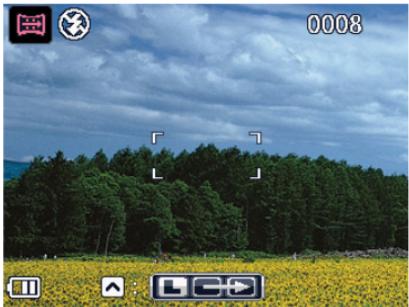
 During the countdown, you can press the shutter to cancel the countdown. The camera will then start detecting faces again.
3. The camera continues to detect faces and takes more pictures by repeating Step 2. This face tracking will automatically stop if no faces are detected.

Panorama

Creates a panoramic photo from multiple shots. Two to three shots are stitched into one single and seamless large picture. For optimized performance, the image resolution is automatically set at 1M (1024 x 768) when this mode is selected.

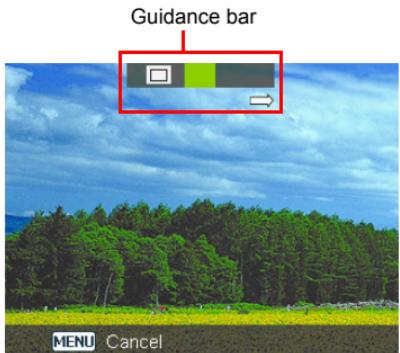
1. Press **MENU** >  > **Shooting Mode** and select **Panorama**.
2. Press  to select how shots will be stitched.

3. Press the shutter to capture the first shot.



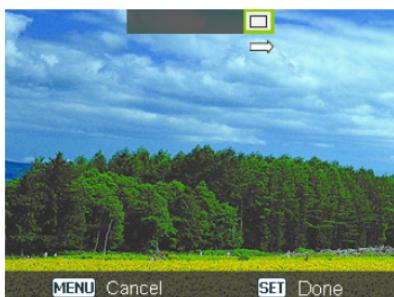
Icon	Mode	Description
	Left-to-Right	The direction of the succeeding shots will be to the right of the first shot.
	Right-to-Left	The direction of the succeeding shots will be to the left of the first shot.

4. A guidance bar appears on top of the screen. The screen icon indicates the location of the current screen. Pan the camera following the guidance arrow.

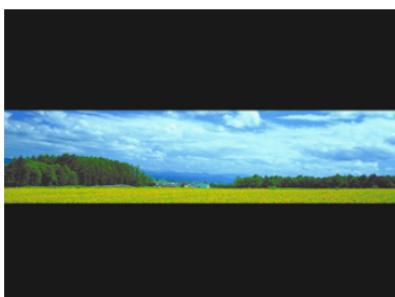


5. Once the screen icon overlaps the green block, the camera will automatically take the second shot. If you will only stitch two shots, press **SET** to complete the panoramic picture. Otherwise, proceed to the next step.

6. To take the third shot, pan the camera to the direction of the guidance arrow. Once the screen icon overlaps the green block, the camera will automatically take the third shot.



The camera captures the shot when the screen icon overlaps the block



Panoramic picture preview

LOMO

Creates a lomo-like effect by adding over saturated colors, dark corners, and so on.

1. Press **MENU** > > **Shooting Mode** and select **LOMO**.
2. Take a picture. (The LOMO effect will be applied to this picture immediately.)

When the LOMO effect is applied, color shift (changes in colors) might occur.



Before



After

Fisheye

Simulates a fisheye lens effect and creates a distorted hemisphere-like image.

1. Press **MENU** > > **Shooting Mode** and select **Fisheye**.
2. Take a picture. (The Fisheye effect will be applied to this picture immediately.)



Before



After

Pre-composition

Captures the background first for positioning the final image. Ideal for asking others to take your photo.

1. Press **MENU** > > **Shooting Mode** and select **Pre-composition**.
2. Press the shutter to capture the background. The bottom section of the screen displays the captured background image in a semi-transparent region.
3. Use the captured background image to frame the composition, and press the shutter to capture the final image.

Web Auction

Combines a maximum of 4 shots into one single image on a VGA (640 x 480) size, so it can be quickly used in situations such as Internet auctions.

1. Press **MENU** > > **Shooting Mode** and select **Web Auction**.
2. Press or to move to the number of shots you want to take, and then press **SET**.

Icon	Mode	Description
	1 shot	Takes one picture only.
	2 shots	Takes two pictures based on the numeric order shown below:
	3 shots	Takes three pictures based on the numeric order shown below:

	4 shots	Takes four pictures based on the numeric order shown below: 
---	---------	--

3. Press the shutter to take one picture.
4. If you are satisfied with the picture, press **SET** to take the next one. (If you want to re-take the previous picture, press **MENU** and repeat Step 3.)
5. Once you have finished taking all pictures, the camera will automatically combine these images into one.

Movie Record mode settings

Icon	Description
	<p>Video Format: HD 720p (16:9; 1280 x 720), VGA (640 x 480), QVGA (320 x 240), or Web (640 x 480).</p> <ul style="list-style-type: none"> • Video recording will automatically stop when the video file size reaches 4 GB. • Video recording at HD 720p (16:9; 1280 x 720) will automatically stop when the video file size reaches 4 GB or the total recording time is near 29 minutes. • Recording a video at HD 720p (16:9; 1280 x 720) requires a Class 6 or above SDHC card. • Videos captured in Web mode are stored under the XXXUTUBE directory (XXX are numbers) with the file size limited to 1 GB or 10 minutes per video file (video recording will automatically stop).
	White Balance: Auto, Daylight, Cloudy, Tungsten, Fluorescent H, Fluorescent L, or Manual. See "White Balance" on page 13 for more details.
	AE metering: Matrix, Center Weight, Spot. See "AE metering" on page 14 for more details.
	Effect: Normal, LOMO, Vivid, Sepia, Color Accent (Red), Color Accent (Green), Color Accent (Blue), B&W, Vivid Red, Vivid Green, Vivid Blue. See "Effect" on page 15 for more details.

 	<p>Pre-record: On and Off</p> <p>When Pre-record is on , the camera repeats recording a short video clip for a 3-second duration before you press the shutter. Once you press the shutter, the previous 3-second video clip will be combined into the current video you are shooting.</p> <p> Only the latest 3-second video clip is stored temporarily on the memory.</p>
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To select a Movie Record option:

1. Slide the mode switch to  and enter the **Movie Record** mode.
2. Press **Fn** · , and then select an option.
3. Press  or  to select a setting.
4. Press **SET** to confirm setting.

Battery status

Icon	Description
	Battery power is full.
	Battery power remains adequate.
	Battery power is low.
	Battery power is very low. You should replace the battery ASAP.

Other settings

Press **MENU** > , and then select an option.

Option		Description
Sounds	[Startup]	Sets a type of the startup sound.
	[Shutter]	Sets the shutter sound on and off.
	[Operation]	Sets the button (excluding shutter) sound on and off.
	[Volume]	Adjusts the volume of the shutter sound, startup sound, operation sound and playback sound.

Power Saving	[1 min.]	For power conservation, the camera automatically enters the standby mode after it has been idle for a period of time. (Press any key to resume.)
	[3 min.]	
	[5 min.]	
	[Off]	The camera remains on when idle.
LCD Saving	[On]	For power conservation, the LCD screen is automatically dimmed after the camera has been idle for 20 seconds. (Press any key to resume.)
	[Off]	The LCD screen remains bright when the camera is idle.
Date/Time	Sets the date and time.	
Language / 言語 / 语言	Select a language for display menus and other information.	
File Numbering	[Series]	Stores the most recently used file number regardless of deleted files or a change of memory card. This is useful for avoiding the file name duplication when images are downloaded to a computer.
	[Reset]	Resets file numbering each time the memory card is changed.
TV Out	You can review images on a television with an AV cable.	
	[NTSC]	America, Japan, Taiwan and others
	[PAL]	China, Europe, Oceania, and others
	TV Format should be set to either NTSC or PAL depending on your region. For details about which system should be used, check with your local authorities.	
LCD Brightness	[Auto]	The LCD brightness is automatically set based on the surrounding environment.
	[High]	The LCD brightness is increased.
	[Normal]	The LCD brightness remains at the default value.
Manage Memory	[Format]	Formats the internal memory or the memory card.
	[Copy to Card]	Copies files from the internal memory to the memory card.

Reset All	Resets the entire menu and button operation settings to initial default. The following settings do not change after Reset All: Date & Time setting Language setting TV Format setting
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Playback mode

Slide the mode switch to  to enter the Playback mode.



 While pausing video playback, you can press the shutter to capture the video frame as a still image in the VGA format.

Item	Description	Page reference
1	Indicates that the camera is in the Playback mode.	--
2	Indicates that the file is protected and cannot be deleted.	36
3	Indicates this file has a voice memo or the file is an audio file.	37
4	Indicates the file is marked for printing.	--
5	Displays the shooting parameters when you took the picture or playback controls. Press DISP to toggle between different displayed information.	--
6	Date and time when the file was created.	--
7	File number	--
8	Histogram	--
9	File name, file size, shutter speed, and aperture value	--

Options for playback and editing

When the camera is in the Playback mode, press or to move to different files. You can also select any of the following options.

Enlarging an image

Magnifies an image, so more details can be seen.

To enlarge an image:

1. Slide the mode switch to .
2. Press or to move to the image you want to enlarge.
3. Press to zoom-in or to zoom-out.
4. Press or to move to the area you want to see.
5. Press **MENU** to return to the normal viewing size.

Rotating an image

You can press to change the orientation of an image at 90 degrees clockwise at a time.

For each rotation, the image file in the new orientation is automatically saved.

Viewing multiple files at a time

Shows up to 9 files at a time on the screen.

To view multiple files:

1. Slide the mode switch to .
2. Slide to . In this mode, maximum 9 files (shown in thumbnails) are displayed on the screen. Press , **DISP**, , or to select a file, and then press **SET** or **MENU** to view it in its normal viewing size.
3. Slide to . In this mode, all files are arranged by dates. Press , **DISP**, , or to select a file, and then press **SET** or **MENU** to view it in its normal viewing size.

If there are more than 9 thumbnails, you can press repeatedly until the scroll bar is highlighted. Then you can press to move to the previous 9 thumbnails or **DISP** to move to the next 9 thumbnails. To cancel highlighting the scroll bar, just press .

Playing back video clips

View recorded video clips in the playback mode.

To view a video clip:

1. Slide the mode switch to .
2. Press  or  to move to the video clip you want to view.
3. Start playing back.
 - Press **SET** to start playing the video clip.
 - Press **DISP** to stop the video clip, or press   to pause it. Press   again to resume.



- During video playback, press  to fast forward or press  to rewind.
- While pausing video playback, you can press the shutter to capture the video frame as a still image in the VGA format.
- While pausing video playback, you can view the video frame by frame. Press  to fast forward one frame, or press  to rewind one frame. Press and hold  to fast forward frame by frame continuously, or press and hold  to rewind frame by frame continuously.

Adjusting the playback volume

Increase or decrease the volume of video clips, audio clips, or voice memos.

To adjust the playback volume:

1. Turn the power on, and set the camera to the playback mode.
2. Press  or  to select a video clip, audio clip, or voice memo that you want to playback.
3. Adjust the volume.
 - Slide to  to increase the volume.
 - Slide to  to decrease the volume.

The volume can be set during playback, but not during rewind, fast forward, or pause.

Slideshow

Sets the time interval for presenting a series of captured image and video files (first frame only).

To play a slideshow:

1. Slide the mode switch to .
2. Press **MENU** >  > **Slideshow** > **SET** or .
3. Change the slideshow settings.
 - Use the four-way control to set one of the following slideshow effects:
 -  Applies a transition effect from left to right.

- Applies a transition effect from upper-left side to lower-right side.
- Applies a horizontal transition effect.
- Applies a vertical transition effect.
- Applies a horizontal transition effect by intersecting an image.

- You can set the interval between 1/3/5/10 seconds.

4. Select whether you want to repeat the slideshow.
5. Select **Start** and press **SET** to play the slideshow.

If you want to pause it at any time, press **SET**. Press **SET** again to resume playback. To stop the slideshow, press **MENU**.

Deleting files

Removes selected or all files.

To delete files:

1. Slide the mode switch to .
2. Press **MENU** > > **Delete** > **SET** or .
3. Select whether to delete this selected file, other selected, all files, or voice memo only, and then press **SET**.

Protecting files

Prevents selected files from accidental removal.

To protect files:

1. Slide the mode switch to .
2. Press **MENU** > > **Protect** > **SET** or .
3. Select whether to protect this selected file, other selected, or all files, and then press **SET**. You will then see the icon indicating the file is protected.

You can remove the protection anytime by following the same procedure as shown above. Note that in Step 2 the on-screen instruction will ask you how you want to remove the protection.

Red-eye Removal

The Red Eye Correction function is used to reduce red eye in captured images. This function is only available for still images. Red eye correction can be applied to an image several times, but the quality may gradually deteriorate.

1. Slide the mode switch to .
2. Press or to move to the image you want to apply Red-eye Removal.
3. Press **MENU** > > **Red-eye Removal** > **SET** or .
4. Press **SET** to confirm the change and save the image file.

You cannot use this function on images captured in Panorama mode.

Voice memo

Inserts a voice annotation to an image file.

To record a voice memo:

1. Slide the mode switch to .
2. Press or to move to the image you want to add a voice memo.
3. Press **MENU** > > **Voice Memo** > **SET** or .
4. Select **Start** > **SET** to start recording your voice.
5. Select **Stop** > **SET** to stop recording.

To play back a voice memo:

1. Press **SET** to play the voice memo.
2. Press to pause the playback.
3. Press to resume the playback.
4. Press **MENU** to exit playback.

Photo Effect

You can add special effects to your images.

Icon	Option	Description
	Normal	No effect is added to the image.
	Sepia	Recorded image will be stored in a sepia tone.
	B/W	Convert image to black & white.
	Negative	Colors become the opposite of what they were in the original image.
	Mosaic	Applies a mosaic tile effect to the image.
	Vivid Red	The image becomes reddish.
	Vivid Green	The image becomes greenish.
	Vivid Blue	The image becomes bluish.

To add a special effect to an image:

1. Slide the mode switch to .
2. Press or to move to the image you want to add an effect to.
3. Press **MENU** > > **Photo Effect** > **SET** or .

- Press or to select the effect. The preview result based on the currently selected effect is shown in the middle thumbnail.
- Press **SET** to confirm the change and save the image file.



You cannot use this function on images captured in Panorama mode.

Trimming

Crops part of an image file, reduces the image size, and overwrites the image file or saves it as another new file.

To trim an image:

- Slide the mode switch to .
- Press or to move to the image you want to trim.
- Press **MENU** > > **Trim** > **SET** or .
- Slide to or to select the target image size (8M, 5M, 3M, VGA) to which you want to reduce.
- Press , , , or to locate the area to trim.
- Press **SET** to confirm the change and save the image file.

You cannot trim images in the size of 3:2, 16:9, or VGA, or images captured in Panorama mode.

Resizing

Changes an image file to a smaller size, and overwrites the image file or saves it as another new file.

To resize an image:

- Slide the mode switch to .
- Press or to move to the image you want to resize.
- Press **MENU** > > **Resize** > **SET** or .
- Press or to select the target image size to which you want to reduce.
- Press **SET** to confirm the change and save the image file.

You cannot resize images in the size of 3:2, 16:9, or VGA, or images captured in Panorama mode.

Startup image

Sets the welcome screen when the camera is powering on.

To select a startup image:

1. Press **MENU** > > **Startup Image** > **SET** or .
 - To use the default startup image, select **Default**.
 - To use a custom image, select **My Photos** and press or to select an image.
 - To disable the startup image, select **Off**.
2. Press **SET**.

DPOF

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

To set up DPOF:

1. Press **MENU** > > **DPOF**.
2. Press or **DISP** and select one of the following options.
 - To set the DPOF setting for one image in a time, select **Single**. and press or to select an image.
 - To set the DPOF setting for all images in a time, select **All**.
 - To clear all DPOF settings to initial default, select **Reset**.
3. Press or **DISP** to specify the number of copies.
4. Press to decide whether you want to turn the date stamp on.
5. Press **SET**.

Radial Blur

Applies a rotating motion effect to give a feel of speed.

To apply a Radial Blur effect:

1. Slide the mode switch to .
2. Press **MENU** > > **Radial Blur** > **SET** or .
3. Press or **DISP** and select a degree of Radial Blur.
4. Press **SET** to confirm the change and save the image file.

You cannot use this function on images captured in Panorama mode.

Working with computer and AV system

Bundled software

The camera offers the following programs on a CD.

ArcSoft PhotoImpression 5	Combines photo editing with creative enhancement and sharing tools that maximize your digital media experience.
ArcSoft VideoImpression 2	Creates multimedia presentations by combining photos and video clips with audio, text and scene transitions.

To install these programs, see the information supplied with the CD.

Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files as well as charge the camera.

To connect the camera to a computer:

1. Connect the end of the smaller plug of the USB cable to the camera.
2. Turn on the camera.
3. Connect the other end of the USB cable to an available USB port on your computer.
4. Select **Computer** and wait for the connection.
5. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.



- When connecting the camera to a computer, it is necessary to install a battery into the camera.
- When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

Connecting the camera to an AV system

You can play files in your camera from an AV system such as TV or projector.

To connect the camera to an AV system:

1. Connect the end of the smaller plug of an AV cable to the camera.
2. Connect the yellow video plug and the white audio plug of the AV cable to a video-input jack and an audio-input jack (left channel) on your AV system.
3. Turn on the AV system, and then switch to the AV source connecting to the camera.
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV or projector screen.

Printing images

In addition to printing images by connecting the camera to a printer via a computer or bringing the memory card (if available) to a photo-processing center, you can choose to print using PictBridge.

Printing with PictBridge

You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

To print images from a PictBridge-compatible printer:

1. Connect the end of the smaller plug of the USB cable to the camera.
2. Connect the other end of the USB cable to an available USB port on your printer.
3. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.
4. Turn on the camera.
5. Select **Printer** and wait for the connection.
6. Select one of the following options:
 - To print one image at a time, select **Print Single**, and press  or  to select an image.
 - To print all images at a time, select **Print All**.
 - To print all images (shown by thumbnails) at a time, select **Print Index**.
7. Press **SET**.
 • The above procedure may vary depending on the printer type you are using.
 - If you connect the camera to your printer while the printer is still starting up, the camera will be automatically turned off.
 - Failure to follow the above procedure will make the camera show an error message. Please disconnect the camera and the camera will be automatically turned off.

Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

Problem	Cause	Solution
The camera cannot power up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Replace the battery.
The battery power is draining quickly.	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The flash does not fire or recharge.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	--
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.
I cannot download images from the camera to my computer.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Replace the battery.

The camera does not shoot even when pressing the shutter button.	The battery is running low.	Replace the battery.
	The camera is not in the Capture mode.	Switch to the Capture mode.
	The shutter button was not pressed all the way down.	Press the shutter button all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Connect the camera to the printer, turn on the camera, and then select Printer .

Technical support

For technical assistance, free driver updates, product information, and news releases, visit the following web site:

<http://www.BenQ.com>

Specifications

Sensor	Panasonic 14 Mega Pixels, 1/2.3 inch CCD
Zoom	Optical: 4X Digital: Up to 4X (Preview) / Up to 12X (Playback)
Lens	f = 4.8 (W) ~ 19.2 (T) mm F= 2.9 (W) ~ 6.5 (T) f = 27 mm ~ 108 mm, 35 mm equivalent
Focus Range	Normal: W = 10 cm ~ Infinity T = 60 cm ~ Infinity Super Macro: 5 cm
LCD	2.7" LCD 230k pixels
Image Resolution	<ul style="list-style-type: none"> • 14M (4320 x 3240) • 3:2 (4320 x 2880) • 8M (3264 x 2448) / 5M (2592 x 1944) / 3M (2048 x 1536) / HD 16:9 (1920 x 1080 in full HD format) / VGA (640 x 480)
Movie Mode	HD 720p (1280 x 720), VGA (640 x 480), QVGA (320 x 240), Web (640 x 480) 30 fps Continuous recording with sound
Shutter Speed	1/2000 ~ 1 sec (Fireworks 2 sec.; Night Scene 1/2000 ~ 15 sec.)
White Balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent H, Fluorescent L, Manual
Exposure	-2 ~ +2 EV (0.3EV / step)
ISO	<ul style="list-style-type: none"> • Auto / 100 / 200 / 400 / 800 / 1600 • 3200 for resolution of 3M or under only • 6400 for resolution of 3M or under only
Flash	Auto / Red-eye Reduction / Forced On / Slow Sync / Forced Off
Drive mode	Off / 10 sec. (Self-timer) / 2 sec. (Self-timer) / Double / Burst / Speedy Burst
Power Source	CIPA approximately 180 based on bundled Li-ion battery
Storage Type	Built-in approx. 11 MB SD (up to 4GB) / SDHC (up to 32GB) / SDXC (up to 64GB)
File Format	Still Image: JPEG (EXIF 2.2 compatible); DCF compatible Video: MJPEG Audio: WAV
Dimensions / Weight	98 x 53 x 19 mm 100 g (w/o battery & SD card)
Interface	Digital output: USB 2.0 compatible Audio / Video output (NTSC/PAL) PictBridge compatible

Accessories	USB Cable / Software & User Manual CD / User Manual or Quick Guide / Hand Strap / Leather case / Li-ion battery / AC power adapter  Available accessories depend on the actual items shipped and may vary from the list above.
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 All information, designs, and specifications are subject to change without prior notice.